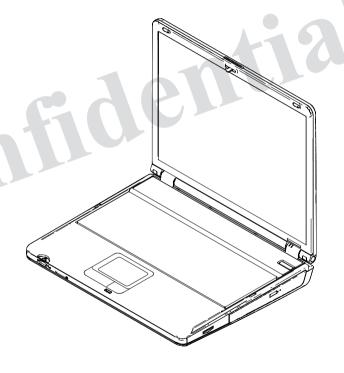
# VGN-K31/K31B/K71B PCG-K33/K33F/K33P/K33Q/K34FP/K35/K35F/K37 PCG-K315B/K315M/K315S/K315Z PCG-K86P/K86SP

# **SERVICE MANUAL**

Ver. 8 2005D

**Revision History** 

Area	Model	Lineup	1
		VGN-K31	<u></u> [MA]
Japanese	Japanese	VGN-K31B	⚠ [MA]
		VGN-K71B	<u></u> [MA]
		PCG-K33	
	US Canadian	PCG-K33P	<u></u> [MA]
	US Cariadian	PCG-K35	
American	· ·	PCG-K37	
American		PCG-K33F	<u></u> [MA]
	Latin	PCG-K34FP	<u></u> [MA]
		PCG-K35F	<u></u> [MA]
	Quebec	PCG-K33Q	<u></u> [MA]
		PCG-K315B	Ī
Europoon	AEP/UK	PCG-K315M	
European	ALPION	PCG-K315S	
		PCG-K315Z	
Asian/Oceania/	International	PCG-K86P	<u></u> [MA]
South Africa	miemational	PCG-K86SP	<u></u> [MA]











- Design and specifications are subject to change without notice.
- ・本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

PERSONAL COMPUTER



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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilati on or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

### **Service and Inspection Precautions**

# 1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

#### 2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  $\triangle$  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

# 3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### 4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

#### 5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

## 6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

### **Confidential**

#### **TABLE OF CONTENTS**

Section

Section	<u>Title</u>	Page
	SPECIFICATIONS ons	1-1 (to 1-1)
CHAPTER 2.	BLOCK DIAGRAM	
CHAPTER 3.	FRAME HARNESS DIAGRAM	3-1 (to 3-1)
CHAPTER 4. Palmrest	EXPLODED VIEWS AND PARTS LIST	
		4-2
Main Board		
M-1 Bottom		4-4
		4-6
Hood Keyboard		
H-1 LCD		4-8
	nch WXGA (High Brightness) –Made by QDI–	4-10
	nch WXGA (Clear Black) –Made by HI–	
	nch WXGA (High Brightness) –Made by HI	
Accessories		
A-1		4-16
DIP Switch		4-17
		(to 4-17)

CHAPTER 5. OTHERS

Title

History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は、"Revision History"として、本データ末に記載してあります。

Page

# CHAPTER 1. SPECIFICATIONS

## 1-1. Specifications

					<u></u> [COR]						
		J		<b>.</b>	<b>+</b>	<b>_</b>	Α	M			
	VGN-K71B	VGN-K31B	VGN-K31	PCG-K37	PCG-K35	PCG-K33	PCG-K33P	PCG-K35F	PCG-K33F	PCG-K34FP	PCG-K33Q
CPU	M-P4 3.06GHz	Cel 2.66GHz	Cel 2.66GHz	M-P4 3.20GHz	M-P4 3.06GHz	M-P4 3.06GHz	M-P4 3.06GHz	M-P4 3.06GHz	Cel 2.93GHz	P4 2.80GHz	M-P4 3.06GHz
	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP	RADEON IGP
Graphic	345M	345M	345M	345M	345M	345M	345M	345M	345M	345M	345M
	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA	15.4/WXGA
LCD	(Clear Black)	(Clear Black)	(Clear Black)	(High Brightness)							
HDD	80GB	60GB	60GB	80GB	80GB	60GB	60GB	40GB	40GB	40GB	60GB
MEMORY(Slot1)	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	512MB/DDR/266	256MB/DDR/266						
MEMORY(Slot2)	-	-	-	512MB/DDR/266	256MB/DDR/266						
QUANTITY[STANDARD/MAX]	256MB/1GB	256MB/1GB	256MB/1GB	1GB/1GB	512MB/1GB						
AVAILABLE SLOT(STANDARD)	1	1	1	1	1	1	1	1	1	1	1
OPT-DRIVE	SuperMulti	SuperMulti	SuperMulti	DVD+-RW/+DL	DVD+-RW/+DL	Combo	Combo	DVD+-RW	Combo	Combo	Combo
AC adaptor	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9
Battery	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY
internal W-LAN	×	×	×	0	0	0	0	0	0	0	0
os	XP Home	XP Home	XP Home	XP Home	XP Home	XP Home	XP Pro	XP Home	XP Home	XP Pro	XP Home
	<u></u> [MA]	<u></u> [MA]	<u></u> [MA]		OR]		<u></u> [MA]				

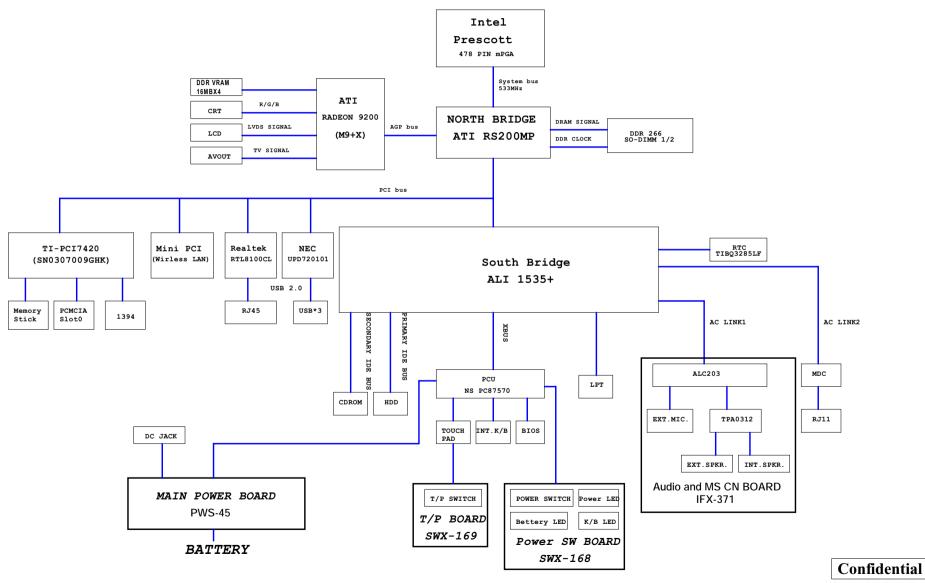
		↓ E	U		A	.0
	PCG-K315Z	PCG-K315S	PCG-K315B	PCG-K315M	PCG-K86P	PCG-K86SP
СРИ	M-P4 3.06GHz	M-P4 3.06GHz	Cel 2.93GHz	M-P4 3.06GHz	M-P4 3.20GHz	M-P4 3.20GHz
Graphic	Mobility (TM) Radeon (TM) 9200	Mobility (TM) Radeon (TM) 9200	RADEON IGP 345M	RADEON IGP 345M	Mobility (TM) Radeon (TM) 9200	Mobility (TM) Radeon (TM) 9200
LCD	15.4/WXGA (High Brightness)	15.4/WXGA (High Brightness)	15.4/WXGA (High Brightness)	15.4/WXGA (High Brightness)	15.4/WXGA (High Brightness)	15.4/WXGA (High Brightness)
HDD	60GB	40GB	40GB	40GB	60GB	60GB
MEMORY(Slot1)	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266
MEMORY(Slot2)	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266	256MB/DDR/266
QUANTITY[STANDARD/MAX]	512MB/1GB	512MB/1GB	512MB/1GB	512MB/1GB	512MB/1GB	512MB/1GB
AVAILABLE SLOT(STANDARD)	1	1	1	1	1	1
OPT-DRIVE	DVD+-RW/+DL	DVD+-RW	DVD+-RW	DVD+-RW	DVD+-RW/+DL	DVD+-RW+DL
AC adaptor	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9	AC19V9
Battery	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY	BP2NY
internal W-LAN	0	×	×	×	0	0
os	XP Home	XP Home	XP Home	XP Home	XP Pro	XP Pro

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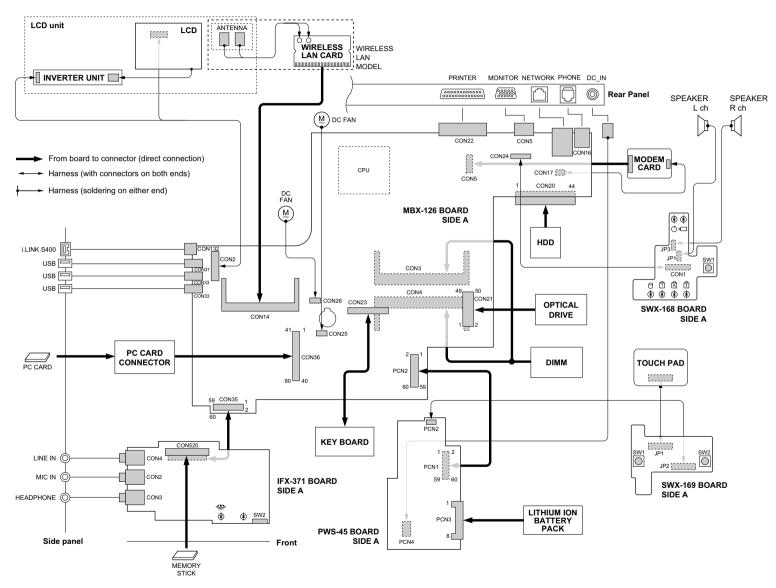
<sup>•</sup> The trademarks of registered trademarks of above table, refer to page 2.

<sup>・</sup>本表中の商標・登録商標については、2ページをご参照ください。

# CHAPTER 2. BLOCK DIAGRAM



# CHAPTER 3. FRAME HARNESS DIAGRAM



### CHAPTER 4.

## EXPLODED VIEWS AND PARTS LIST

The parts list is compiled by blocks of a palmrest and bottom etc.
The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section Pa	ige
Palmrest	
P-1 Main Board	1-2
M-1	4-4
B-1	4-6
Hood Keyboard	
H-1	4-8
LCD	
L-1. 15.4-inch WXGA (High Brightness) -Made by QDI 4-	-10
L-2. 15.4-inch WXGA (Clear Black) -Made by HI 4-	-12
L-3. 15.4-inch WXGA (High Brightness) -Made by HI4-	-14
Accessorv	

分解図と部品表は、バームレスト、ボトムなどのブロックごとに分かれています。
 機種によって部品表のセクションが異なりますので、詳細は右下の一覧表表参照してください。

#### NOTE:

A-1..... DIP Switch

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked " \$ " are the High Value Modules (HVM).
- The parts marked "#" are the parts on which barcode label is attached.
   For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support.

  Especially the parts with the <&> mark require the special attention to

Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploided view.

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro soécifié.

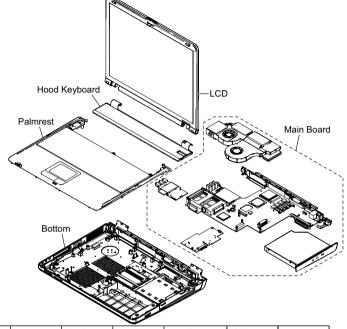
#### 【使用上の注意】

4-16

- ・\*印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- ・部品名称の前に\$印のついた部品は, High Value Module (HVM) です。
- 商品名称の前に#印のついた部品は、パーコードラベル貼付部品です。 パーコードラベルについてはCHAPTER 5を参照してください。
- ・部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replacable Part (CRP) です。

特に<&>のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replacable Parts対象部品か、対象外部品かを必ず御確認ください。

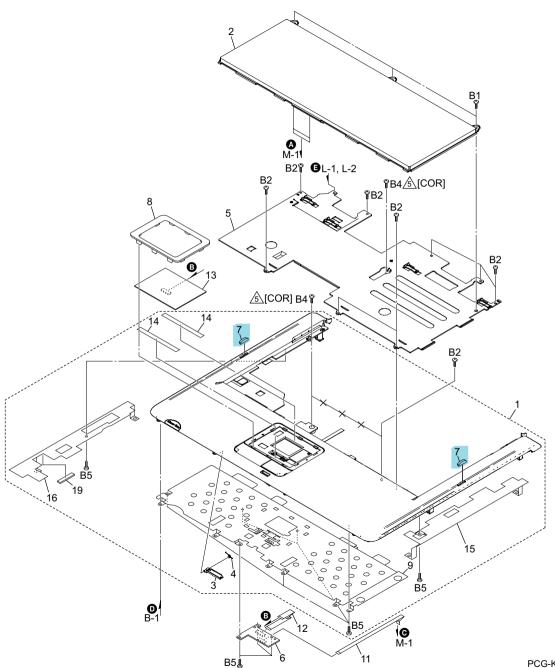
△中の部品、または△印付きの点線で囲まれた部品は、 安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。



			Palmrest	Main Board	Bottom	Hood Keyboard	LCD	Accessory
[MA]		K71B	P-1	M-1	B-1	H-1	L-2	A-1
[MA]	J	K31B	P-1	M-1	B-1	H-1	L-2	A-1
[MA]		K31	P-1	M-1	B-1	H-1	L-2	A-1
		K37	P-1	M-1	B-1	H-1	L-1	A-1
		K35	P-1	M-1	B-1	H-1	L-1	A-1
		K33	P-1	M-1	B-1	H-1	L-1	A-1
MA]		K33P	P-1	M-1	B-1	H-1	L-1	A-1
MA]	AM	K35F	P-1	M-1	B-1	H-1	L-3	A-1
MA]		K33F	P-1	M-1	B-1	H-1	L-3	A-1
MA]		K34FP	P-1	M-1	B-1	H-1	L-3	A-1
MA]		K33Q	P-1	M-1	B-1	H-1	L-3	A-1
		K315Z	P-1	M-1	B-1	H-1	L-1	A-1
١.		K315S	P-1	M-1	B-1	H-1	L-1	A-1
-   '	EU	K315B	P-1	M-1	B-1	H-1	L-1	A-1
		K315M	P-1	M-1	B-1	H-1	L-1	A-1
MA]		K86P	P-1	M-1	B-1	H-1	L-1	A-1
[MA] /	AO	K86SP	P-1	M-1	B-1	H-1	L-1	A-1

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P-1. Palmrest



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## P-1. Palmrest

Ref. No.	Part No.		<u>Description</u>
1 3 4 * 5 6	X-2023-730-1 4-681-301-01 4-676-233-01 2-178-998-01 A-8068-709-A	\$	HOUSING PALMREST ASSY JE51 LATCH DETECTOR SPRING LATCH DETECTOR BRACKET KEYBOARD COMPLETE PWB SWX-169
7 8 9 11 12	4-681-295-02 4-681-296-01 2-179-005-01 1-829-355-11 1-829-140-11	&	CUSHION PALMREST ESCUTCHEON TOUCHPAD BRACKET TOUCHPAD CABLE, FLEXIBLE FLAT TP-PWS FFC (TO T/P)
13 14 15 16 19	1-796-319-51 2-179-580-01 2-179-001-01 2-179-002-01 2-349-107-01		PAD, TOUCH TAPE TP BRKT PALMREST R BRKT PALMREST L GASKET USB JE5
B1 B2 B4 B5	4-216-272-01 4-641-726-12 4-641-726-41 4-665-205-01		SCREW (M2), + SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2

				J		Г		_	AM					E	J	Т	AO
	Ref. No. Part No.	Description	770	K3.18	£3	K37	K35	K330	K35F	K33F	K34FP	K33Q	K315Z	K315S	K315B	K315M	K86P K86SP
^	2 1-478-597-12	KEYBOARD UNIT(US)	Ť	Ť	Ť	•	•	•	1	Ť	T			T	Ť	T	•
<u> </u>	1-478-597-32	KEYBOARD UNIT(TH)		Ι													•
IAMI IN	1-478-597-42	KEYBOARD UNIT(JP)	•	•	•												
	1-478-598-12	(UK,Dutch)KEYBOARD UNIT(GB)		Ι									•	•	•	•	
	1-478-598-23	(German)KEYBOARD UNIT(DE)		T		Γ	П	- T	Т	T	Ι		•	•	•		
	1-478-598-32	(Swiss)KEYBOARD UNIT(CH)		T		Γ	П	- T	Т	T	Ι		•				
	1-478-598-42	(French,Belgium)KEYBOARD UNIT(FR)		T-	T	T	П	- T	T	T	Τ	T	•	•	•		
	1-478-598-53	(Italian)KEYBOARD UNIT(IT)		T-	T	T	П	- T	T	T	Τ	T	•	•	•		
^	1-478-598-62	(Spanish)KEYBOARD UNIT(ES)		T-	T	T	П		T	T	Τ	T	•	•	•		
<u>∕</u> 1\ [MA]	1-478-598-72	KEYBOARD UNIT(LA)		Ι					•	•	•						
1\ [MA]	1-478-598-82	KEYBOARD UNIT(CA)							T		T	•					
	This parts list contains two     The first type is the parts t	o different types of parts. hat are common to all models.	[MA1]	\1       	V1 W	<u> </u>		[MA]	MA.	[MA]	WA]	MA]					1\1

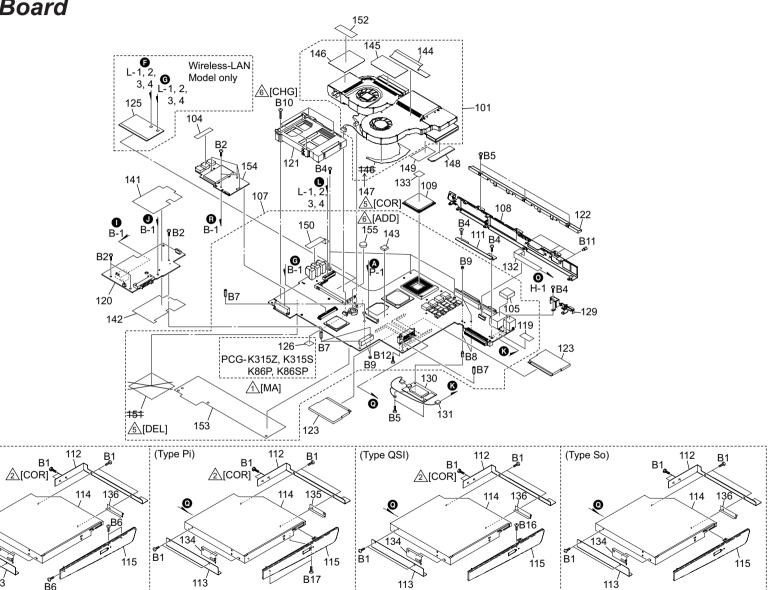
• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

The other type is the parts that are different depending on each model.

## M-1.Main Board

(Type Pa)

<u></u> **(MA)** 



2 [ADD]

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### ♠ [CHG]

1-818-420-21 PC CARD CONNECTOR

## M-1. Main Board

<u>F</u>	Ref. No.	Part No.	<u>Description</u>
*	101 104 105 108	A-1086-462-A 2-349-106-01 2-022-439-01 X-2023-732-1 4-674-030-01	\$ JE5 COOLING UNIT (S) CUPPER TAPE AUDIO JE5 GASKET LAN I/O BRACKET ASSY GUIDE DRIVE
*	112 113 119 120 121	2-159-394-01 2-179-006-01 - A-1071-984-A 818-420-11	\$ BRACKET DRIVE R JE2 BRACKET DRIVE L JE2 KAPTON TAPE COMPLETE PWB PWS-45 CONNECTOR, PC CARD ◀
*	122 129 130 131 132	4-681-305-01 2-179-009-01 1-761-606-14 1-963-379-11 1-830-249-11	COVER HOOD BRACKET DC JACK CARD, MODEM HARNESS 2PIN (JE5) CABLE,FLEXIBLE FLAT S-M JE5
	133 134 141 142 143	2-549-332-01 4-670-244-01 2-189-268-01 2-189-269-01 2-189-270-01	PAD CPU JE5 SPRING DRIVE R INSULATOR PWS TOP INSULATOR PWS BOTTOM CUSHION FAN 1
	144 145 146 147 148	2-549-328-01 2-549-329-01 2-549-330-01 2-549-331-01 2-549-333-01	INSULATOR FIN1 JE5 INSULATOR FIN2 JE5 INSULATOR FIN3 JE5 INSULATOR FAN1 JE5 PAD POWER JE5
	149 150 <del>151</del>	2-549-334-01 2-349-105-01 2-549-327-01	PAD POWER MOS JE5 CUPPER TAPE USB JE5  TAPE PCU JE5   ★ [DEL]
	152 153	- 2-581-064-01	KAPTON TAPE BOTTOM SHIELDING
<u></u> [ADD]	154 155	A-1071-988-A 1-756-148-11	\$ COMPLETE PWB IFX-371 (WL) SECONDARY, BATTERY LITHIUM
	B1 B2 B4 B5 B6	4-216-272-01 4-641-726-12 4-641-726-41 4-665-205-01 4-645-177-01	SCREW (M2), + SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2 SCREW (M1.7X3.5)
	B7 B8 B9 B10 B11	2-549-335-01 4-651-989-41 7-622-205-05 4-644-637-91 4-635-966-01	STAND M2* 3.5-10.4 SPACER (MBX) NUT M2 TYPE2 GRIP, M2 EG SCREW (HEX)
	B12 B16 B17	7-621-772-50 4-679-805-01 4-679-805-11	SCREW +B 2X10 SCREW (B1.7), TAPPING SCREW (B1.7), TAPPING

#### <u></u> [CHG]

8-457-597-10 \$ # DRIVE, DVD DW-D56A-VN (SO)

						Т	J				Α	М					Е	U	П	A
Def Ne	Deet No.			Description		K71B	K31B	K31	K37	X33	K33P	K35F	K33F	КЗ4FР	K33Q	K315Z	K315S	K315B	K315M	K86P
		_	"					$\perp$								조	Y			=
107							•	•	•			•	•	•	•	_	_	•		
		•	#			+-	$\vdash$	$\vdash$	+	٠.	+-				_			$\vdash$		•
109							<del> </del>				•	•	ļ		•	•	•			
							<u> </u>		•			ļ	ļ	L						•
							<u> </u>					ļ	•	ļ				•		
							•	•				<u> </u>								
														•						
114		\$	#			•	•													
	1-797-051-11	\$	#	W-DVD (DVR-K14VA)(Pi)		-1	T	- T	•		Т	Ι''''	I			•				•
	1-797-056-11	\$	#	W-DVD (DVR-K14VAS)(Pi)		T-	T			Т.	T	•	T				•	•	•	
	1-796-941-11	\$	#	COMBO DRIVE (SBW-242C)(QSI)		T-	T			•	•	T	•	•	•					
115	X-2024-580-1			ASSY KME UJ830 BEZE		•	•	•												П
	X-2024-581-1			ASSY PIO K14VA BEZEL GP		-1	1		•	•	T	T	1			•				•
	X-2024-582-1			ASSY PIO K14VAS BEZEL GP			1				T	•	1				•	•	•	
	X-2024-615-1			ASSY QSI 242C BEZEL			<b>†</b>			-	•	<b>†</b>	•	•	•					
123	6-705-096-01			IC HYS64D64020HBDL-6-C(512MB)		$\top$		$\Box$	•	$\top$	$\top$							$\neg$	$\neg$	$\neg$
	6-707-029-01			IC HYS64D32020HDL-6-C(256MB)			1			•		•	•	•	•					
	6-705-094-01			IC M470L3224FT0-CB3(256MB)		•	•	•				<b>†</b>	<b>†</b>			•	•	•	•	•
125	1-789-014-31			CARD, WIRELESS LAN		$\top$	т	П	$\neg$	$\top$	$\top$			П		•	П	$\neg$	╅	•
	1-789-014-11			CARD, WIRELESS LAN			-	-	•		•	•	•	•	•					
126	2-022-443-01			VGA HEATSINK					$\neg$	$\top$						•	•		$\neg$	•
135	4-682-593-01			SPRING DRIVE R					•	•	$\top$	•				•	•	•	•	•
136	4-677-259-01			SPRING DRIVE L		-	•		-	-			•	•	-		-	-	-	$\neg$
	107 109 114 115 123 125 126	A-1071-983-A 109 6-707-623-01 6-707-623-01 6-707-109-01 6-707-109-01 6-707-107-01 114 1-797-051-11 1-797-051-11 1-797-056-11 1-798-941-11 15 X-2024-580-1 X-2024-581-1 X-2024-581-1 X-2024-581-1 123 6-705-096-01 6-707-029-01 6-705-094-01 125 1-789-014-31 1-789-014-31 1-789-014-31	107 A-1071-982-A \$ A-1071-983-A \$ 109 6-707-623-01 6-707-622-01 6-707-629-01 6-707-109-01 6-707-109-01 6-707-109-01 114 1-797-110-11 \$ 1-797-056-11 \$ 1-797-056-11 \$ 1-797-056-11 \$ 1-796-941-11 \$ 115 X-2024-580-1 X-2024-580-1 X-2024-580-1 123 6-705-096-01 6-705-096-01 6-705-096-01 125 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31	107 A-1071-982-A \$ # A-1071-983-A \$ # 109 6-707-623-01 6-707-622-01 6-707-102-01 6-707-107-01 6-707-107-01 6-707-659-01 114 1-797-10-11 \$ # 1-797-056-11 \$ # 1-797-056-11 \$ # 1-797-056-11 \$ # 1-798-941-11 \$ # 115 X-2024-580-1 X-2024-580-1 X-2024-581-1 X-2024-580-1 X-2024-615-1 123 6-705-096-01 6-705-094-01 125 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31 1-789-014-31	107	107	107 A-1071-982-A \$ # COMPLETE PWB MBX-128 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51 109 6-707-623-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-622-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-109-01 IC RK80546FE0871MSL7NA(3.06GHz) 6-707-109-01 IC RK80546FE077256SL709(2.93GHz) 6-707-109-01 IC RK80546FE077256SL709(2.93GHz) 1-707-659-01 IC RK80546FE07275MSL709(2.93GHz) 1-707-659-11 S # DVDRW(UJ-830BSX1-A)(Pa) 1-797-056-11 \$ # W-DVD (DVR-K14VAS)(P) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 1-797-056-11 \$ # W-DVD (DVR-K14VAS)(P) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 1-796-941-11 \$ # SSY KME UJ830 BEZE 1-797-056-11 \$ # SSY KME UJ830 BEZE 1-797-059-01 IC HYS64D84020HBDL-6-C(512MB) 1-797-059-01 IC HYS64D84020HBDL-6-C(512MB) 1-797-059-01 IC HYS64D84020HBDL-6-C(512MB) 1-789-014-11 CARD, WIRELESS LAN	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51 109 6-707-623-01 IC RK80546HE0831MSL7Na(3.06GHz)	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51   A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51   109 6-707-623-01	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51 109 6-707-623-01 IC RK60546HE0831MSLTNA(3.06GHz)	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51 109 6-707-623-01 IC RK80546HE0831MSLTNAI(3.06GHz) 6-707-622-01 IC RK80546HE0831MSLTNAI(3.06GHz) 6-707-109-01 IC RK80546HE0831MSLTNAI(3.20GHz) 6-707-109-01 IC RK80546RE07256SL70L(2.66GHz) 6-707-109-01 IC RK80546RE07256SL70L(2.66GHz) 114 1-797-101-11 \$ # DVD+-RWIUJ-830BSXI-AJ(Pa) 117-797-056-11 \$ # W-DVD (DVRK14VA)(Pa) 1-797-056-11 \$ # W-DVD (DVRK14VA)(Pa) 1-797-056-11 \$ # W-DVD (DVRK14VA)(Pa) 1-797-056-11 \$ # COMBO DRIVE (SBW-24C)(QSI) 115 X-2024-580-1 ASSY KME UJ830 BEZE  X-2024-581-1 ASSY MB UJ830 BEZE  X-2024-581-1 ASSY PIO K14VA SEZEL GP X-2024-581-1 ASSY PIO K14VA SEZEL GP X-2024-581-1 ASSY PIO K14VA SEZEL GP X-2024-581-1 ASSY PIO K14VAS BEZEL GP 1-797-0596-01 IC HYS64D6402HBDL-6-C(512MB) 6-707-029-01 IC HYS64D6402HBDL-6-C(512MB) 6-707-029-01 IC HYS64D6402HBDL-6-C(512MB) 125 1-789-014-31 CARD, WIRELESS LAN 1-789-014-11 CARD, WIRELESS LAN 1-789-014-31 CARD, WIRELESS LAN	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 INT JE51 109 6-707-622-01 IC RK80546HE0831 MSLTNA(3.06GHz) 6-707-622-01 IC RK80546HE0831 MSLTNA(3.06GHz) 6-707-109-01 IC RK80546RE07256SL709(2.93GHz) 6-707-109-01 IC RK80546RE07256SL709(2.93GHz) 6-707-109-01 IC RK80546RE07256SL70L(2.66GHz) 1-707-109-01 IC RK80546RE07256SL70L(2.66GHz) 1-707-056-11 S # DVDRW(IJ-830BSX1-A)(Pa) 1-797-056-11 \$ # W-DVD (DVR-K14VA)(Pa) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 1-796-941-11 \$ # SSY KME UJ830 BEZE  X.2024-582-1 ASSY KME UJ830 BEZE  X.2024-582-1 ASSY MSY LMS0 BEZE   X.2024-581-1 ASSY PIO K14VA BEZEL GP X.2024-581-1 ASSY PIO K14VA BEZEL GP X.2024-581-1 ASSY PIO K14VA BEZEL GP X.2024-581-1 ASSY QSI 242C BEZEL X.2024-581-	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 EXT JE51 109 6-707-623-01 IC RK80566HE0831MS17NA(3.06CHz)	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 EXT JE51 109 6-707-623-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-622-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-109-01 IC RK80546PE0871MSL7NB(3.20GHz) 6-707-109-01 IC RK80546PE0872F6SL709(2.93GHz) 6-707-109-01 IC RK80546PE077256SL709(2.93GHz) 6-707-109-01 IC RK80546PE072TMSL7PK 114 1-797-110-11 \$ # DVD-+RW(UJ-830BSX1-A)(Pa) 1-797-056-11 \$ # DVD+-RW(UJ-830BSX1-A)(Pa) 1-797-056-11 \$ # W-DVD (DVR-K14VAS)(P) 1-796-941-11 \$ # W-DVD (DVR-K14VAS)(P) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 115 X-2024-580-1 ASSY KME UJ830 BEZE 1 X-2024-581-1 ASSY FINE KI4VAS BEZEL GP 1 X-2024-581-1 ASSY PIO K14VAS BEZEL GP 1 X-2024-581-1 ASSY PIO K14VAS BEZEL GP 1 X-2024-581-1 ASSY PIO K14VAS BEZEL GP 1 X-2024-581-1 ASSY OSI 242C BEZEL 1 X-2024-	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JES1	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 EXT JE51  109 6-707-623-01 IC RK80546HE0831MSL7NA(3.06GHz)	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51 A-1071-983-A \$ # COMPLETE PWB MBX-126 EXT JE51  109 6-707-623-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-622-01 IC RK80546HE0831MSL7NA(3.06GHz) 6-707-109-01 IC RK80546PE0871MSL7NB(3.20GHz) 6-707-109-01 IC RK80546PE077256SL709(2.93GHz) 6-707-109-01 IC RK80546PE077256SL709(2.93GHz) 114 1-797-110-11 \$ # DVD-+RW(UJ-830BSX1-A)(Pa) 1-797-056-11 \$ # DVD+-RW(UJ-830BSX1-A)(Pa) 1-797-056-11 \$ # W-DVD (DVR-K14VAS)(Pi) 1-796-941-11 \$ # COMBO DRIVE (SBW-242C)(QSI) 115 X-2024-580-1 ASSY KME UJ830 BEZE X-2024-581-1 ASSY HOK HJVANS BEZEL GP X-2024-581-1 ASSY HOK HJVANS BEZEL GP X-2024-581-1 ASSY PIO K14VAS BEZEL GP X-2024-581-1 ASSY OSI 242C BEZEL 123 6-705-096-01 IC HYS64D84020HBDL-6-C(512MB) 6-707-029-01 IC HYS64D84020HBDL-6-C(512MB) 6-707-029-01 IC HYS64D84020HBDL-6-C(512MB) 1-789-014-31 CARD, WIRELESS LAN 1-789-014-31 CARD, WIRELESS LAN 1-789-014-11 CARD, WIRELESS LAN 1-789-0	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JE51	107 A-1071-982-A \$ # COMPLETE PWB MBX-126 INT JES1

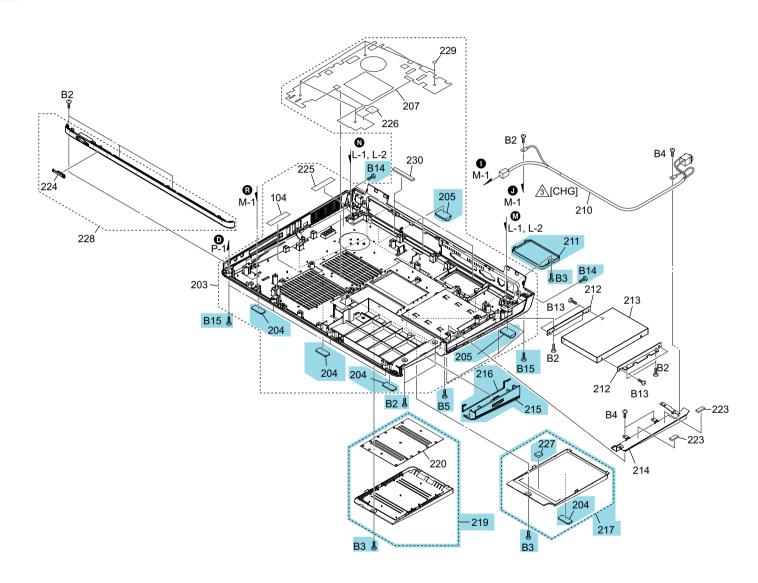
• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

The other type is the parts that are different depending on each model.

- When change the CPU (ref. 209), refer to "Replacing the CPU" in CHAPTER 5.
- CPU (Ref. 209) を交換する際には、CHAPTER 5の「Replacing the CPU」をご参照下さい。

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## **B-1.** Bottom



### Confidential

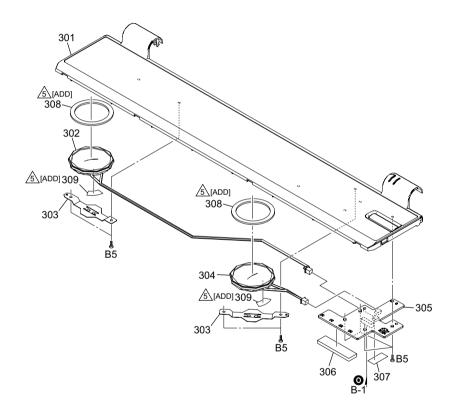
## **B-1.** Bottom

B-1.	Bottom				⚠ [CHG]	
Ref. No.	Part No.		Description		1-963-704-11	HARNESS (W
104 203 204 205 207	2-349-106-01 X-2023-731-1 2-050-614-01 4-674-041-01 2-179-007-01	& &	CUPPER TAPE AUDIO JE5 HOUSING BOTTOM ASSY JE51 FOOT FRONT FOOT REAR INSULATOR HEATSINK BTM			⚠ [MA]
210 211 * 212 * 214	<del>-1-962-775-11</del> 4-681-314-01 4-674-033-01 2-179-008-01	&	HARNESS (WITH DC JACK, 2P)  COVER MODEM BRACKET HDD BRKT HOLDER PW CABLE			
215	4-681-318-01	&	DOOR BATTERY			• 7
216 217 219 220 223	4-681-337-01 	& & &	BATTERY DOOR LINK  COVER HDD ASSY  COVER MEMORY ASSY INSULATOR MEMORY GASKET ODD JE3			• ;
225 226 227 229 230	2-189-273-01 2-549-326-01 2-022-449-01 2-549-325-01 2-022-444-01	&	CUSHION FAN 2 ACETATE TAPE BLACK JE1 SPONGE COVER HDD INSULATOR HEATSINK BTM2 JE5 GASKET HOUSING BTM1	(COR)	& COVER HDI	D ASSY JE5
B1 B2 B3 B4 B5	4-216-272-01 4-641-726-12 4-672-834-31 4-641-726-41 4-665-205-01	<&> & &	SCREW (M2), + SCREW (M2), SPECIAL HEAD SCREW, +B EG GRIP SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2			
B13 B14 B15	4-673-018-02 4-673-655-01 4-644-637-01	& &	SCREW SPECIAL HEAD SCREW +B GRIP, M2 EG			

HARNESS	(WITH DC	JACK)					_												_	•	
	Ref. No	. Part No.			Description	K71B	K31B	K31	K37	K35	1.	WA W35F	K33F	КЗ4FР	K33Q	K315Z	K315S	_	_	Y SOP	
	213	A-1072-482-A	\$	#	HDD (MK8025GAS-80GB) (S)	•	T	П	•	•	Ť	Ť	Ť	T	Ī		П	T	丁	Ť	_
A		A-1065-523-A	\$	#	ASSY HDD 60GB (-21) (H,40) (S)		•			- 7	•	-	T	T	•	•			-	•	-
<u>∕1</u> \ [MA]		A-8117-201-A	\$	#	HDD(MHT2060AT-60GB)(S)		T	•				7	T	T	1						7
[AM]		A-1083-186-A	\$	#	HDD (40GB,HTS424040) (S)						Ι	•	•	•	Ι						
717 []		A-1062-141-A	\$	#	HDD_(MHT2040AT-40GB-A)_(S)		Ι	ПΤ	T		- T	Т	T	T	Ι''''		•	•	•	7	7
	224	4-681-362-01			SWITCH WIRELESS LAN			П	•	•	•	•	•	•	•	•	•		•	•	7
	228	X-2023-743-1			ESCUTCHEON FRONT ASSY(WL)			П	•	•	•	•	•	•	•	•	•		٦,	•	,
		X-2023-733-1			ESCUTCHEON FRONT ASSY	•	•	•					T		[			•	•		
	• This na	arts list contair	ns t	wo c	ifferent types of parts.	[MA]	[MA]	[MA]			[MA]	MA	MA MA	WA W	MA.				ZIVVI)	1\/ [\]	MAJ MAJ

- This parts list contains two different types of parts.
   The first type is the parts that are common to all models.
   The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

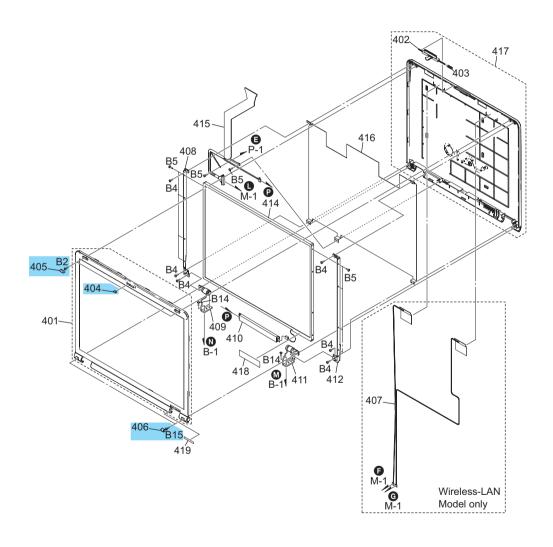
# H-1. Hood Keyboard



# H-1. Hood Keyboard

<u> </u>	Ref. No.	Part No.	<u>Description</u>
*	301 302 303 304 305	X-2022-035-1 1-825-825-21 4-681-308-01 1-825-825-11 A-8068-706-A	\$ HOOD KB ASSY SPEAKER (3.2CM) BRACKET SPK SPEAKER (3.2CM) COMPLETE PWB PWB SWX-168
⚠ [ADD] ⚠ [ADD]	306 307 308 309	2-022-447-01 - 2-179-699-01 2-189-971-01	GASKET PW BOARD KAPTON TAPE CUSHION SPEAKER GUARD SPEAKER
	B5	4-665-205-01	SPECIAL FLAT HEAD (EG GRIP), M2

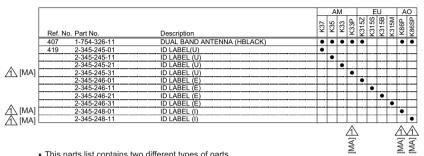
# L-1. LCD 15.4-inch WXGA (High Brightness) – Made by QDI –



### Confidential

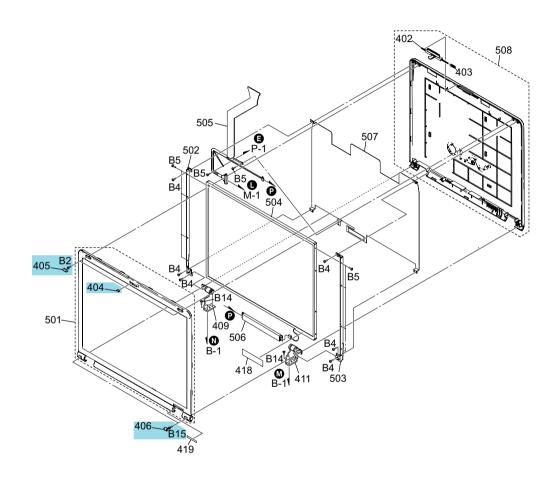
# L-1. LCD 15.4-inch WXGA (High Brightness) – Made by QDI –

Ref. No.	Part No.			<u>Description</u>
401 402 403 404 405	X-2022-041-1 2-050-591-01 2-176-929-01 4-681-353-01 4-681-354-01		& &	BEZEL DISPLAY ASSY BUTTON LATCH LCD SPRING LATCH LCD JE3 CUSHION LATCH CUSHION LCD
406 * 408 409 410	4-681-355-01 2-067-071-01 2-179-000-01 1-478-805-12 1-478-976-11		&	CUSHION HINGE BRACKET LCD L HINGE L INVERTER UNIT INVERTER UNIT
411 * 412 414 415 416 417	2-178-999-01 2-067-070-01 A-1070-777-A 1-963-380-11 2-050-612-01 X-2022-040-1	\$ #		HINGE R BRACKET LCD R ASSY LCD 15WXGA(QDI)(S) HARNESS, LCD (JE5) LCD SHIELDING HOUSING DISPLAY ASSY
418	-			KAPTON TAPE
B2 B4 B5 B14 B15	4-641-726-12 4-641-726-41 4-665-205-01 4-673-655-01 4-644-637-01		&	SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2 SCREW +B GRIP, M2 EG



- This parts list contains two different types of parts.
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# L-2. LCD 15.4-inch WXGA (Clear Black) – Made by HI –





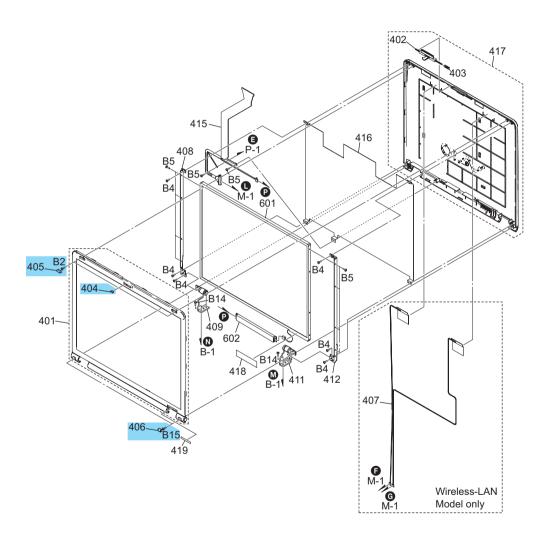
# L-2. LCD 15.4-inch WXGA (Clear Black) – Made by HI –

Ref. No.	Part No.		<u>Description</u>
402 403 404 405 406	2-050-591-01 2-176-929-01 4-681-353-01 4-681-354-01 4-681-355-01	& & &	
409	2-179-000-01		HINGE L
411	2-178-999-01		HINGE R
418	-		KAPTON TAPE
501	X-2023-729-1		BEZEL DISPLAY ASSY(HC)
502	2-349-104-01		BRACKET LCD L(HC)
503 504 505 506			BRACKET LCD R(HC) ASSY LCD(15.4 WXGA)(H)(S) HARNESS, LCD (JE5-HHC) INVERTER UNIT(2CFL-17W) INVERTER UNIT
507	2-188-209-01		LCD SHIELDING
508	X-2023-728-1		HOUSING DISPLAY ASSY(HC)
B2	4-641-726-12	&	SCREW (M2), SPECIAL HEAD
B4	4-641-726-41		SCREW (M2), SPECIAL HEAD
B5	4-665-205-01		SPECIAL FLAT HEAD (EG GRIP), M2
B14	4-673-655-01		SCREW +B
B15	4-644-637-01		GRIP, M2 EG

				J	
	Def No Both	Description	7718	(31B	K31
ļ	Ref. No. Part No.	Description		X	
	419 2-345-244-01	ID LABEL (J)	•	П	П
	2-345-244-11	ID LABEL (J)			1
[	2-345-244-21	ID LABEL (J)		T	•

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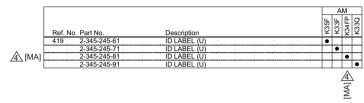
# L-3. LCD 15.4-inch WXGA (High Brightness) – Made by HI –





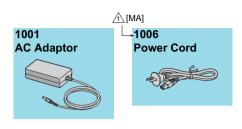
# L-3. LCD 15.4-inch WXGA (High Brightness) – Made by HI –

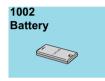
Ref. No.	Part No.		<u>Description</u>
401 402 403 404 405	X-2022-041-1 2-050-591-01 2-176-929-01 4-681-353-01 4-681-354-01	& &	BEZEL DISPLAY ASSY BUTTON LATCH LCD SPRING LATCH LCD JE3 CUSHION LATCH CUSHION LCD
406 407 408 409 411	4-681-355-01 1-754-326-11 2-067-071-01 2-179-000-01 2-178-999-01	&	CUSHION HINGE DUAL BAND ANTENNA (HBLACK) BRACKET LCD L HINGE L HINGE R
412 415 416 417 418	2-067-070-01 1-963-380-11 2-050-612-01 X-2022-040-1		BRACKET LCD R HARNESS, LCD (JE5) LCD SHIELDING HOUSING DISPLAY ASSY KAPTON TAPE
601 602	A-1095-390-A 1-478-805-21 1-478-976-11		ASSY LCD(15.4 WXGA)(H)(S) INVERTER UNIT INVERTER UNIT
B2 B4 B5 B14 B15	4-641-726-12 4-641-726-41 4-665-205-01 4-673-655-01 4-644-637-01	&	SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2 SCREW +B GRIP, M2 EG

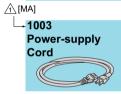


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- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

## A-1. Accessories













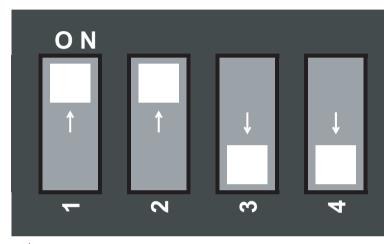
						Т	J					Al	И			$\top$		EU		ΙA	0	I
	Ref. No	o. Part No.			Description	K71B	K31B	K31	K37	K35	K33	K33P	K35F	K33F	K34FP	K330	K3158	K315B	K315M	K86P	K86SP	
	₫ 1001	1-478-390-81	S	8	ADAPTOR, AC	٠.	i e	•	•	•	•	•	•	•	•	•	, i		•	•	•	
/ [MA]	<u> </u>	A-8120-051-A	\$		BP-2NY(J)ASSY(S)	•	•	•	4	4	Ė	Ť	-	-	-	- 1	1	4	4	-	Ė	[ADD]
717 [		A-8120-052-A	Š		BP-2NY(U)ASSY(S)		†	†	•	•	•	•			_		_		<del>                                     </del>			-7 <u>77</u> [VDD]
		A-8120-053-A	S S		BP-2NY ASSY (S)		†	<b></b>	-			-	•	•	•	• •		•	•	•	•	
[AM]	<b>∆</b> 1003	1-827-160-21			POWER-SUPPLY CORD	•	•	•				П	$\neg$	$\dashv$	$\top$	$\neg$	$^{+}$	$^{+}$	T			
717 [	₾ 1004	1-829-237-21		&	CORD, POWER	$\top$	T		•	•	•	•	•	•	•	•	$\top$	$\top$	T	Т		
	₾ 1005	1-823-935-51			CORD, AC POWER	$\top$	T	T	Т			П	$\neg$	$\neg$	$\top$	1			•	•	П	
[AM]	△ 1006	1-555-074-32			CORD, POWER	$\top$	т	T	Т	Т	Т	П	$\neg$	$\dashv$	$\top$	$\top$	$^{+}$	T	т	•	П	
	₾ 1008	1-827-481-21			POWER-SUPPLY CORD	$\top$	$\top$		Т			П	$\neg$	$\neg$	$\top$	1	•		т		•	
^	-	1-816-429-12			(UK)PHONE PLUG (GB)	$\top$	T	T				П	$\neg$	┪	╅	1	•		•			
/1 [MA]	-	2-318-527-01		&	MANUAL(XP),INSTRUCTION			•				П			1							ĺ
1 [MA]	-	2-320-669-11		&	TROUBLESHOOTING GUIDE		†	1					_				-	-	1	•	•	
imai	-	2-320-668-11		&	SAFETY/REGULATIONS GUIDE		1	ļ									-		1	•	•	
	-	2-345-502-01			QUICK START				•	•	•	•		$\neg$	$\top$		$\top$	$\top$	T			ĺ
/1\ [MA]	-	2-348-397-01		&	QUICK START (QAX)		1	1							_	•			1			
[MA]	-	2-348-396-01		&	QUICK START (LA)		T	T					•	•	•				T	·	1	
Z1Z [.v., d	-	2-318-021-11		&	GETTING STARTED BOOKLET	$\top$	Т		П			П	$\neg$	$\neg$	$\top$	١,	•		•			ĺ
	-	2-318-020-11		&	(UK,Dutch)HW SPECS	$\top$	Т					П		T	$\top$	- 1	•		•	Г		ĺ
	-	2-318-020-21		&	(German, Swiss)HW SPECS		T									-		•	T	T		
	-	2-318-020-31		&	(French, Belgium, Swiss)HW SPECS		T	T										•	T	·	1	
	-	2-318-020-41		&	(Italian)HW SPECS		T	T										•	T	·	1	
	-	2-318-020-51		&	(Spanish)HW SPECS		T	T								-	•	•	T	T	1	
	-	2-318-020-61		&	(Dutch,Belgium)HW SPECS		T	Ī								-		•	T	Ī	Ī	
						[MA]	[WA]	[WA]	7			Λ WA WA	Λ E	Λ V V V	4\ \[\]	MA]				[MA]	[MA]	7

- This parts list contains two different types of parts.
   The first type is the parts that are common to all models.
   The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

Confidential

## **DIP Switch**

- The DIP switch setting is following table.
- ・DIPスイッチの設定は下の表をご参照ください。



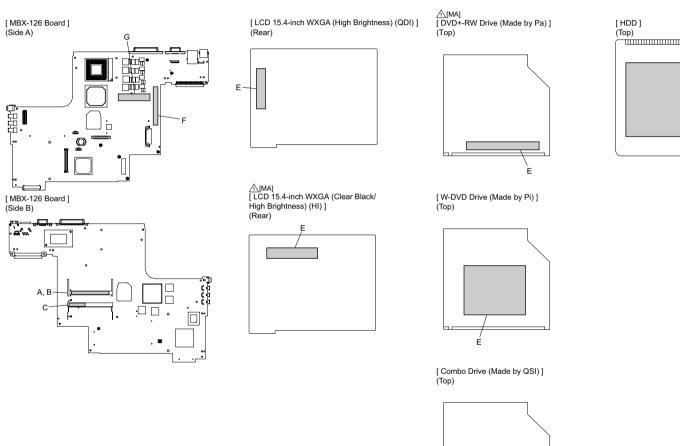
⚠ [COR]

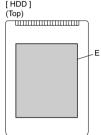
# CHAPTER 5. **OTHER**

## 5-1. The Barcode Label

The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。





: Part No. Α : Serial No. В C : Revision No. D : Product Code : Maker Barcode

: Global User ID (iLink) : Mac Address

: Barcode

### Confidential

## 5-2. Replacing the CPU

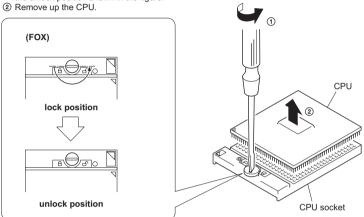
Note: We have two kinds of CPU for this set, and either of them is used.

Two kinds of CPU have differences in the lock position and the unlock position.

#### 1. Socket configuration 1

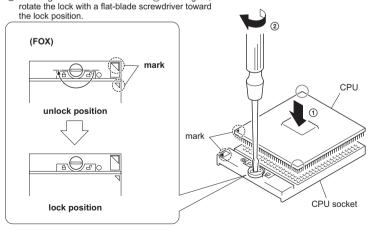
#### 1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.



#### 2. How to install the CPU

Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
 Pressing two corners marked with ○ in the figure,

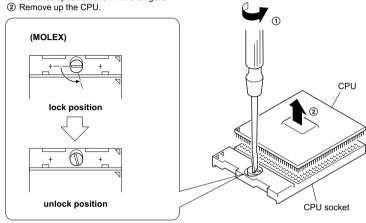


Note: Lock the CPU properly, or operation becomes unstable.

#### 2. Socket configuration 2

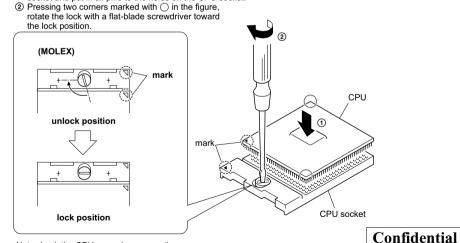
#### 1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.



#### 2. How to install the CPU

 Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.



Note: Lock the CPU properly, or operation becomes unstable.



VGN-K31/K31B/K71B (J)
PCG-K33/K33F/K33P/K33Q/K34FP/K35/K35F/K37 (AM)
PCG-K315B/K315M/K315S/K315Z (EU)
PCG-K86P/K86SP (AO)

### List of K Series (PCG & VGN) (As of April, 2005)

Service	Model Name										
Manual	J	AM	EU	AO							
9-876-365-XX		PCG-K12FP PCG-K12P PCG-K13 PCG-K13F PCG-K13Q PCG-K14 PCG-K15 PCG-K15	PCG-K115B PCG-K115M PCG-K115S PCG-K115Z PCG-K195BP PCG-K195HP	PCG-K64 PCG-K64S PCG-K66P PCG-K66SP							
9-876-371-XX	VGN-K30 VGN-K30B VGN-K50B VGN-K70B	PCG-K20P PCG-K24FP	PCG-K215B PCG-K295HP	PCG-K74 PCG-K74S PCG-K76P PCG-K76SP							
9-876-373-XX		PCG-K23 PCG-K23F PCG-K23Q PCG-K25 PCG-K25F PCG-K27	PCG-K215M PCG-K215S PCG-K215Z								
9-876-388-XX	VGN-K31 VGN-K31B VGN-K71B	PCG-K33 PCG-K33F PCG-K33P PCG-K33Q PCG-K34FP PCG-K35 PCG-K35F PCG-K37	PCG-K315B PCG-K315M PCG-K315S PCG-K315Z	PCG-K86P PCG-K86SP							

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# **Revision History**

Suffix	Ver.	Date		Contents	QM No.
-01	Ver. 1	2004.10.04	First Edition		
-02	Ver. 2	2004.10.18	<u> </u>	Front Page, Page 1-1, Page 4-1, Page 4-3 to 4-5, Page 4-7, Page 4-11 to 4-16, Page 5-1, Back Cover	N2004_113AK
-03	Ver. 3	2004.10.20	2	Page 1-1, Page 4-4, Page 4-5, Page 4-7, Page 4-16	N2004_119CK
-04	Ver. 4	2004.11.15	<u></u>	Page 4-6, Page 4-7	N2004_130CK
-05	Ver. 5	2004.11.29	4	Front Page, Page 1-1, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-15 to Page 4-16,	N2004_133AK
				Back Cover	
-06	Ver. 6	2004.12.08	5	Page 4-2, Page 4-4, Page 4-5, Page 4-8, Page 4-9	N2004_137CK
-07	Ver. 7	2005.01.12	6	Page 4-4, Page 4-5	N2004_144CK
-08	Ver. 8	2005.05.10	<u>^</u>	Page 4-17	N2005_005CK
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